•				II S Paleo	A A	pproved for	use throug	th 07/31/2006	TO/SE/17 (01-0 OMB 0651-00	77.7
Under the Paperwork Reducti	on Act of 199	5 no persons are rec	uired to n	espond to a collection	n of infor	mation unle	uss it display	ys a valid OM	OF COMMER	CE CE
Fees pursuant to the Consolid	ated Appropri	iations Act 2005 (H.A	2 48481			Complet	te if Kno	wn)
FEE TR				Application Nur	nber ·	10/759	.519		RE	CEIVED
			⊀ ∟	Filing Date		January	16, 200)4	CENTRAL	ELV CENT
Foi	r FY 2	006		First Named In	entor/	CANT	OR, et a	1.	OCIAL INF	FIX CENTE
X Applicant claims small	entity statu	s. See 37 CFR 1:	27	Examiner Name	3	KAPU	SHOC, S	Stephen T	OCT	1 2 2006
				Art Unit		1634				
TOTAL AMOUNT OF PAY	MENT (\$) 510.00		Attorney Docke	t No.	701586	<u>-053651</u>			フ
METHOD OF PAYMENT	r (check al	I that apply)								
Check Credit C	Card	Money Order	Nor	ne Other (p	Nessa ida	ontifu*				·
X Deposit Account De			9-2380	•,			VIXON	PEABOL	OY LLP	
For the above-identif	ied deposit	account, the Direc	tor is he					10,1001	<u> </u>	-
X Charge fee(s)									. F	
		(s) or underpayme	ents of fo	(a) [- -				cept for the	nung tee	
under 37 CFR لخكا	1 16 and 1	17		TX CAECU		erpaymen				Ī
WARNING: Information on this information and authorization	on PTO-2038		it calo lui	ormation should ne	ot be inc	luded on t	his form. P	rovide credit	card	j
FEE CALCULATION (A	I the fees	below are due	upon fi	ling or may be	subjec	t to a su	rcharge.	.)		7
1. BASIC FILING, SEAR			FEES						•	
	FILING	FEES Small Entity	SEAR	CH FEES	EXAN	INATIO				
Application Type	Fee (\$)	Fee (\$)	Fee (\$	Small Entity 1 Fee (\$)	Fee		<u> Entity</u> =_(\$)	Fees	Paid (\$)	
Utility	300	150	500	250	200		00			ľ
Design	200	100	100	50	130	i é	55			
Plant	200	100	300	150	160	ع ا	30			ļ.
Reissue	300	150	500	250	600	30	0			
Provisional	200	100	0	0	0	1	0			
2. EXCESS CLAIM FEE	s					_		Small Enti	ty	1
Fee Description Each claim over 20 (in	icluding R	eissnes)				Ī	50 50	Fee (\$) 25		
Each independent clair			ies)				200	100		
Multiple dependent cla	aims `						360	180		ŀ
	Extra Clain	<u>rs Fee (\$)</u>	Fee	Paid (\$)		M	ultiple De	pendent C	laims	1
- 20 or HP = HP = highest number of total of	daims paid fo	x if greater than 20	- =			Ţ	Fee (\$)	Fee Pa	aid (\$)	į
Indep. Claims	Extra Clain		Fee	Paid (\$)		_				
- 3 or HP = HP = highest number of indepe	endent dolmo	x	=							
3. APPLICATION SIZE F		paid for, it greater th	an 3.							1
If the specification and o	drawings e	xceed 100 sheet	s of pap	er (excluding el	ectroni	ically file	d sequer	ace or com	puter	
listings under 37 CF	R 1.52(e))	, the application	size fee	due is \$250 (\$	125 for	small en	tity) for	each addit	ional 50	f
sheets or fraction the Total Sheets 9 - 100 =	reor. See Extra Shee -91	35 U.S.C. 4 ((a): <u>fs Numbe</u> /50 =	r of each	and 37 CFR 1.16 h additional 50 or (round up to a w	<u>fractio</u>		<u>Fee (</u> 125.0		<u>e Paid (\$)</u> 0.00	
I. OTHER FEE(S) Non-English Specifica						, ^	120.0		pes Paid (\$)	
Other (e.g., late filing		•	•	•	n of T	ime			510.00	-
JEMITTED BY			74							늰
gnature	3	2000		Registration No. 3	0,628/	L0207	Telephon	¹⁹ 617-2	345-6054	-
me (Print/Type) Ronald I	Fisenste	n/I eena H Ka	-				Date	Ostahan '	2 2006	-

This collection of information is required by 37 CFR 1.135. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentially is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including galhering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sant to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-890-PTO-9199 and select option 2.

Na

Under the Paperwork Re	duction Act of 1995, no.	Offsone are required to	U.S. Pate	Appr and Trader	roved for use through 0' mark Office; U.S. DEPA	PTO/SB/17 (01-07/31/2006, OMB 0651-00 RTMENT OF COMMER	`
Under the Paperwork Re			espond to a collect	ion or importing	non uniess it displays a	valid OMB control numb	er
Fees pursuant to the Con	solidated Appropriations	Act, 2005 (H.R. 4818).	A in Figure 1		mplete if Known	PECELV	ᄄᄽ
FEET	RANSM	IITTAI	Application No Filing Date		0/759,519	CENTRAL FAY	ENTCD CONTCD
	or FY 200				muary 16, 2004	अहाव । । असी निस्र	GENTER
		_	First Named I		ANTOR, et al.	OCT 12	2006
X Applicant claims sr	nall entity status. Se	e 37 CFR 1.27	Examiner Nan		APUSHOC, Ste	phen T.	
TOTAL AMOUNT OF P	AYMENT (\$)	510.00	Art Unit Attorney Dock		334 01586-053651		_
METHOD OF PAYME	NT (check all that	apply)		70	1380-033631		く
Check Cred						·	-
X Deposit Account		y Order Non		please identil			1
For the above-ide	offied dennsit acou	per: 19-2380	Deposit A	ccount Name:	NIXON PE	ABODY LLP	.
√ Charge too	entified deposit accou (s) Indicated below	iii, ale Offector is nen	eby authorized to	o: (check all	that apply)		ŀ
			Char	ge fee(s) ind	icated below, excep	t for the filing fee	1
	y additional fee(s) or i FR 1.16 and 1.17		(s) X Cred	t any overne	\monte	•	1
WARNING: Information on t information and authorization	this form may become	public. Credit card info	rmation should n	ot be include	d on this form. Provid	te credit card	1
FEE CALCULATION							
1. BASIC FILING, SEA	ARCH, AND EXAM	INATION SEES	ing or may be	subject to	a surcharge.)		
,	FILING FEES	SEARO	CH FEES	EXAMINA	ATION FEES	•	
Application Type	Fee (\$) Fee	ntity	Small Entity		Small Entity		
Utility	300 150		Fee (\$) 250	Fee (\$)	Fep (\$)	Fees Pald (\$)	
Design	200 100	100	250 50	200	100		
Plant	200 100	300	= =	130	65 _		
Reissue	300 150	500	150	160	80 _		
Provisional	200 100	0	250	600	300 _		1
2. EXCESS CLAIM FE		U	0	0	0 -		1
Fee Description	Construction of the construction					all Entity ee (\$)	1
Each claim over 20 (Each independent cla	including Keissue	s) na Poissuss)			50	25	ľ
Multiple dependent	claims	ing Keissnes)			200	100	I
Total Claims	Extra Claims	Fee (\$) Fee P	aid (\$)		360 <u>Multiple Depend</u>	180 test Claims	
- 20 or HP = HP = highest number of total	X	=				Fee Paid (\$)	
Indep. Claims	Extra Claims	er than 20. Fee (\$) Fee Pa	aid (\$)				1
-3 or HP =	×		<u></u>		· .		ļ
HP = highest number of inde 3. APPLICATION SIZE	C C C						i
If the specification and	drawings exceed 1	00 sheets of paper	(excluding el	ectronically	v filed sequence o	T COmputer .	ľ
					il entity) for each	additional 50	İ
Total Sheets	Extra Sheets	.C. 41(a)(1)(G) end Number of each a					
<u>9</u> - 100 =		=(/	ound up to a wr	ole number)	reof <u>Fee (\$)</u> x 125.00	Fee Paid (\$) = 0.00	
4. OTHER FEE(S) Non-English Specific	ation, \$130 fee (Fees Paid (\$)	
Other (e.g., late filing	surcharge): Petiti	on for Three Mo	nth Extension	of Time		510.00	!
SUBMITTED BY	1	(6)					
Signature Signature	3 X K	に ノノノ M Reg	istration No. 20	(DD# 00	07 Telephone		1
Name (Print/Type) Ronald I.	Figuretein //	(Atto	mey/Agent) 30	,628/L02		617-345-6054	ł
zea ronald I.	Procupicity Leen	a 11. Karminen			Date Octo	ber 12, 2006	1

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including pathering, preparing, and submitting the completed application form the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for recording this burden, should be sent to the Chief Information Officer, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2:



NIXON PEABODY

RECEIVED **CENTRAL FAX CENTER**

18667410075

p.1

Nixon Peabody LLP

Attorneys at Law

100 Summer Street Boston, MA 02110-2131 (617) 345-1000

Fax: (617) 345-1300

CC 1 1 2 2006

PRIVILEGE AND CONFIDENTIALITY NOTICE

The information in this fax is intended for the named recipients only. It contains privileged and confidential matter. If you have received this fax in error, please notify us immediately by a collect telephone call to (617) 345-1000 and return the original to the sender by mail. We will reimburse you for postage. Do not disclose the contents to anyone. Thank you.

FAX

To:	Соправу	Fax #:	Telephone #:
USPTO	United States Patent and Trademark Office	1-571-273-8300	

INTERNATIONAL PHONE NUMBERS MUST INCLUDE COUNTRY & CITY CODE. SEE LOCAL WHITE PAGES FOR CODES NEEDED.

From: Ronald I. Eisenstein No. of Pages: Date: October 12, 2006 Leena H. Karttunen (including this page) Practitioner's Docket No. 701586-053651 PATENT IN THE UNITED STATES PATENT AND TRADEMARK OFFICE In re application of: CANTOR, et al. Application No.: 10/759,519 Group No.: 1634 Filed: January 16, 2004 Examiner: KAPUSHOC, Stephen T. Title: HAPLOTYPE ANALYSIS CERTIFICATION OF FACSIMILE TRANSMISSION 37 CFR 1.6(d) I hereby certify that the following papers are being facsimile transmitted to the Patent and Trademark Office at (571) 273-8300 on the date shown below: 1. Certificate of Facsimile (1 pg); 2. Statement of Limited Recognition (1 pg.); Transmittal Form (1 pg); and Amendment (13 pp.); Petition for Extension of Time in duplicate (2 pp.); and Fee Transmittal in duplicate (2 pp.). Date: Name of person certifying

Original of the transmitted document will be sent by:

o First Class Mail

o Overnight Mail

o Hand Delivery

o This transmission will be the only form of delivery of this document

IF YOU DO NOT RECEIVE ALL OF THESE PAGES, PLEASE CONTACT THE FAX OPERATOR AS SOON AS POSSIBLE AT: (617) 345-1355. THANK YOU.

CONFIRMATION: DATE SENT

She 12, 2006 TIME

INTEROFFICE TO:

o Albany o New York City

o Boston o Providence o Buffalo o Rochester o Garden City o Washington (N)

o Hartford o Washington (P) o Manchester

10154243.1

Practitioner's Docket No. 701586-053651

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

CANTOR, et al.

Application No.:

10/759,519

Filed:

Title:

January 16, 2004

HAPLOTYPE ANALYSIS

Group No.: 1634

Examiner: KAPUSHOC, Stephen T.

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

CERTIFICATION OF FACSIMILE TRANSMISSION

I hereby certify that the following papers are being facsimile transmitted to the Patent and Trademark Office at (571) 273-8300 on the date shown below:

- 1. Certificate of Facsimile (1 pg);
- 2. Statement of Limited Recognition (1 pg.);
- 3. Transmittal Form (1 pg); and
- 4. Amendment (13 pp.);
- 5. Petition for Extension of Time in duplicate (2 pp.); and
- 6. Fee Transmittal in duplicate (2 pp.).

RECEIVED CENTRAL FAX CENTER

OCT 12.2006

BEFORE THE OFFICE OF ENROLLMENT AND DISCIPLINE UNITED STATES PATENT AND TRADEMARK OFFICE

LIMITED RECOGNITION UNDER 37 CFR § 11.9(b)

Leena H. Karttunen is hereby given limited recognition under 37 CFR §11.9(b) as an employee of Nixon Peabody LLP, to prepare and prosecute patent applications wherein the patent applicant is the client of Nixon Peabody LLP and an attorney or agent of record in the applications is a registered practitioner who is a member of Nixon Peabody LLP. This limited recognition shall expire on the date appearing below, or when whichever of the following events first occurs prior to the date appearing below: (i) Leena H. Karttunen ceases to lawfully reside in the United States, (ii) Leena H. Karttunen's employment with Nixon Peabody LLP ceases or is terminated, or (iii) Leena H. Karttunen ceases to remain or reside in the United States on an H-1B visa.

This document constitutes proof of such recognition. The original of this document is on file in the Office of Enrollment and Discipline of the U.S. Patent and Trademark Office.

Limited Recognition No. <u>L0207</u> Expires: February 11, 2007

Harry I. Moatz

Director of Enrollment and Discipline

Under the P	aperwork	Reduction Act of 199	5 BO 00000	La ora sansifand to community	J.S. Patent			PTO/SB/21 (09-0) use through 03/31/2007. OMB 0651-003 e; U.S. DEPARTMENT OF COMMERC			
(S. 110 De 1507	Application Number		1 of Informat 59,519	ion unles	e; U.S. DEPARTMENT OF COMMERC s it displays a valid OMB control number			
TRANSMITTAL				Filing Date	Janu	January 16, 2004					
FORM				First Named Inventor CA		CANTOR, et al.					
•			Art Unit	1634	1		HEGEIVED				
(to be used to	r all corre	spondence after initia	l filina)	Examiner Name	KAP	KAPUSHOC, Stephen T.					
(n This Submission	Attorney Docket Numb	er 7015	86-053651	OCT 1 2 2006					
			ENC	OSURES (Check	all that a	apply)	·				
Fee Tran	ısmittal (-om		Drawing(s)			After Allowance Communicat				
	ee Attac	ched		Joensing-related Papers			ofA	eal Communication to Board ppeals and Interferences			
Amendm	en t/ Rep	ly ·		etition		j 🗀	App (App	eal Communication to TC real Notice, Brief, Reply Brief)			
A	fter Fina	ıt	L P	Petition to Convert to a Provisional Application			Prop	prietary information			
L' ^	ffidavits/	declaration(s)		Power of Attorney, Revocation Change of Correspondence Ad			Stat	us Letter			
Extension	of Time	Request	Terminal Disclaimer				Othe belo	er Enclosure(s) (please identify			
Express Abandonment Request				Request for Refund Certificate of Facsimile; Stat Recognition.				of Facsimile; Statement of Limited			
Information	on Disclo	sure Statement		D, Number of CD(s)				•			
	_			Landscape Table on	CD	_					
Certified (Priority	Remark								
Reply to M			this subm	missioner is authorized to ission to the Nixon Peabo	ody LLP (ee deficier Deposit Aca	icies and count No	d credit overpayments related to b. 19-2380.			
Incomplet	eply to N	lissing Parts									
L un	ider 37 (CFR 1.52 or 1.53						·			
Firm Name	-	SIGNA	TURE OF	APPLICANT, ATT	ORNEY	, OR AC	SENT				
riiii Name	Nixon_E	eabody LLP	\wedge								
Signature	ignature COOOD										
Printed name	Ronald I. Eisenstein/Leena H. Karttunen										
October 12, 2006 Reg. No. 30,628/L0207											
	•	CE	RTIFICA	TE OF TRANSMIS	SION/M	IAILING					
I hereby certify tha	t this co	rrespondence is be	ing facsimi	ie transmitted to the USD	TO at da		h the U	nited States Postal Service with			
the date shown be	as mar c	ioso ilidii ili ari env	erope addre	essea to: Commissioner i	ror Patent	s, P.O. Bo	× 1450,	Alexandria, VA 22313-1450 on			
Signature		Jula-	Mich	felle Petts	Ou		•				
Typed or printed na	ame	Tina-Michelle Pitts		. (1		Date	October 12, 2006			

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in complating the form, call 1-800-PTO-9199 and select option 2.